

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-23 (canceled).

24 (original). A light system comprising:

a light source;

a reflector having first and second focal spots, the light source being situated at the first focal spot, the reflector being configured for concentrating light from the light source to the second focal spot;

an opaque shield having an aperture therein, the aperture being situated proximate to the second focal spot,

wherein the reflector comprises a quasi-ellipsoidal portion, wherein the light source is situated within the quasi-ellipsoidal portion, a cylindrical portion situated between the quasi-ellipsoidal portion and the shield for reflecting stray light from the quasi-ellipsoidal portion in the direction of the shield, a back-reflector portion situated proximate to the shield, and a centrally-mounted portion situated between the aperture and the light source for directing back-reflected light in the direction of the aperture.

25 (original). The system of claim 24 wherein the light source comprises a halogen lamp.

26 (original). The system of claim 25 wherein the halogen lamp comprises an axially positioned filament coil and wherein each dimension of the coil is smaller than a corresponding dimension of the aperture.

27 (original). The system of claim 26 wherein the filament coil is wound in a helix having a length and a diameter, and wherein the length of the helix is equal to or less than about twice the diameter of the helix.

28 (original). The system of claim 24 wherein the quasi-ellipsoidal portion comprises an elliptical portion.

29 (original). The system of claim 24 wherein the reflector comprises a thermally conductive material coated by dichroic mirror material.

30 (original). The system of claim 24 wherein the shield comprises aluminum.

31 (original). The system of claim 24 wherein the aperture comprises a polygonal aperture.

32 (original). The system of claim 24 further comprising a diffuser situated between the light source and the aperture.

33 (original). The system of claim 32 wherein the diffuser is attached to the shield.

34-40 (canceled).